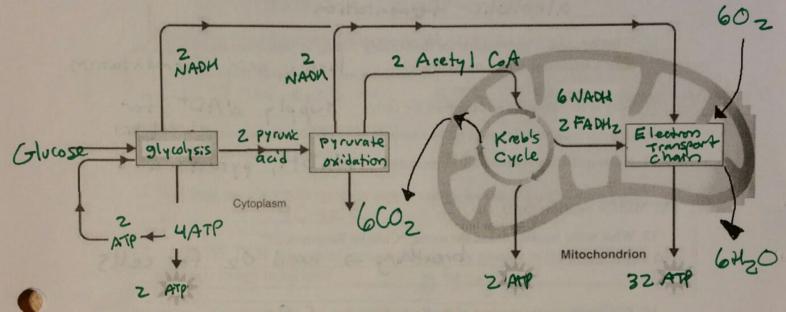
CELL BIOLOGY

Name:	KEY
Date:	

Chapter 9 Test - Breathing for Energy

(1pt): Outside of class, how much did you study? Be Honest! Close to...

Overview of Cell Respiration Diagram (20pt)



Cell Respiration Intro (12pt)

- 1. What is the main purpose of cellular respiration? ATP production
- 2. Write the full equation for cellular respiration (2pt)

- 3. Cellular respiration is the process that breaks down

 Oxygen in order to make ATP (energy carrier for the cell).
- 4. Which part of cellular respiration does not require oxygen? glycolys: 5
- How many ATP can usually be harvested from one glucose molecule? 36(-38)
- 6. What molecule is glucose broken into? pyruvic acid
 7. What are the 3 products of glycolysis? NADM
 ATP, and pyruvic acid

Ferme	entation Notes (5pt)
8.	Without fermentation, why would cells run out of ATP if they relied on glycolysis for ATP?
9.	What process is responsible for bread rising? Use the specific term alcoholic fermentation
10.	What <u>process</u> is responsible for the burning feeling in your muscles after you've done a strenuous sprint on the track? lach'c acid fermenta
11.	Why is fermentation so important for cells? Supply NAD+ for glycolysis
	Name a starting reactant for fermentation NADH, pyruvic acid
The M	liddle Section (5pt)
13.	What is the reason behind the name, "Cellular Respiration?" breathing - need 02 for cells
14.	What is the waste product of the Krebs Cycle?
15.	What is another name for the Krebs Cycle? citic acid cycle
16.	What is the main purpose of the Krebs Cycle? add e to NADH and FADH
17	After only ONE cycle of the Krebs cycle, how many ATP are mode? 1 ATD

The	La	st	Pa	rt	(8p	t)
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18. What part of cellular respir	ration is responsible for the contract of the	he majority of the AT	P made?
19. What is the alternative nan		oort chain?	
20. What vitamin is responsib 21. Name 2 aerobic phases of	le for supplying the FAD cellular respiration	OH ₂ for the cell? V.	+ Bz
21. Name 2 aerobic phases of Krebs cyc			
harvested as much as pos-		or the cell without ax	vgen?
24. For the first 15-20 minut cells find energy to harve 25. What is the waste production	est? gly	t chain? Hz	, where do
EC. Where is the energy stored in glu Connect the dots	acose?	bancs	
		11th &	12h A 44 H 43
		H SI 2014 M:42 M:41 H:49 H:50	ц 50